



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 53946

Title: Serum is preferable to plasma for circulating small extracellular vesicle microRNA biomarker discovery studies

Reviewer's code: 03584309

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Australia

Manuscript submission date: 2020-01-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-01-02 12:12

Reviewer performed review: 2020-01-10 00:08

Review time: 7 Days and 11 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	RE-REVIEW	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept (High priority)	<input type="checkbox"/> Yes	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Accept (General priority)	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Minor revision		<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision		Conflicts-of-Interest:
<input type="checkbox"/> Grade E: Do not publish		<input checked="" type="checkbox"/> Rejection		<input type="checkbox"/> Yes
				<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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This study compared the exosomal miRNA profiles between matched serum and plasma exosome preparations and tested their reliability for biomarkers. The idea is novel and the results are interesting. There are three major points that I concern: 1. It was mentioned that all blood samples were left at room temperature for a period of 16-24 hr before processing with a standardised protocol. Why the authors left the samples for so long a time before further processing? Does such a long period at room temperature have any effect on both the bioactive cargoes of exosomes? Does the delay of processing change the component of small extracellular vesicles isolated, for example, more apoptotic bodies will be produced? 2. It has been recommended to use terms for extracellular vesicle subtypes according to their physical characteristics such as size ("small EVs" (sEVs) and "medium/large EVs" (m/lEVs) instead of exosomes and microvesicles, since there is still no accepted specific markers of exosomes and MVs. 3. The authors should discuss in the discussion section the possible reasons why there is a difference of exosomal profile between serum and plasma exosomes.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- The same title
- Duplicate publication
- Plagiarism
- No

BPG Search:

- The same title
- Duplicate publication
- Plagiarism



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[Y] No



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 53946

Title: Serum is preferable to plasma for circulating small extracellular vesicle microRNA biomarker discovery studies

Reviewer's code: 02439211

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Australia

Manuscript submission date: 2020-01-01

Reviewer chosen by: Jie Wang

Reviewer accepted review: 2020-01-08 03:09

Reviewer performed review: 2020-01-10 02:06

Review time: 1 Day and 22 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	RE-REVIEW	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept (High priority)	<input type="checkbox"/> Yes	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Accept (General priority)	<input type="checkbox"/> No	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Minor revision		<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision		Conflicts-of-Interest:
<input type="checkbox"/> Grade E: Do not publish		<input type="checkbox"/> Rejection		<input type="checkbox"/> Yes
				<input type="checkbox"/> No

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Accept comments: As important regulators, MicroRNA (miRNA) could target multiple genes that they are gradually emerged as potential biomarkers for diagnostic and treatment. However, the most suitable blood sample for exosomal miRNA biomarker studies has not been defined. The authors extracted serum and plasma samples from 10 healthy and 10 patients with esophageal adenocarcinoma, and compared exosome miRNA profiles between them to determine their suitability for biomarker research. They found it that a higher percentage of expressed protein-associated miRNAs in the plasma and serum seems to be more suitable than plasma for exosomal miRNAs biomarkers studies. Overall, it is an interesting study and can be accepted for publication basically as it stands.

INITIAL REVIEW OF THE MANUSCRIPT

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